Replacing the Lamp(s) (Continued)

Step 5 Grasp the lamp by the base then pull the lamp straight up from the lamp holder.

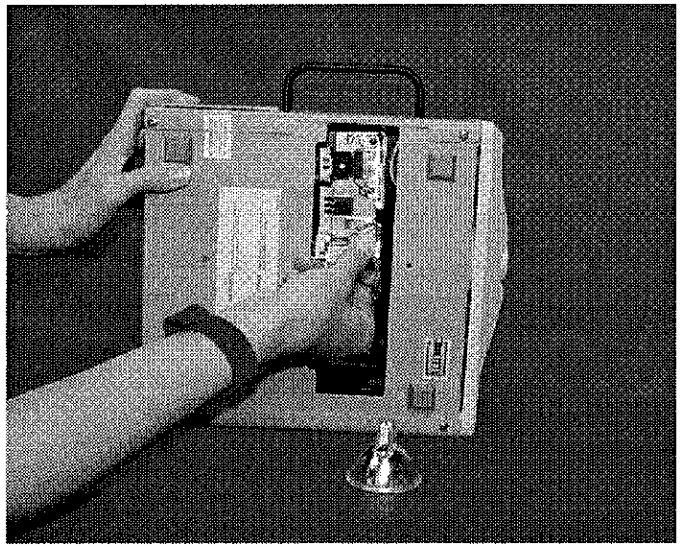
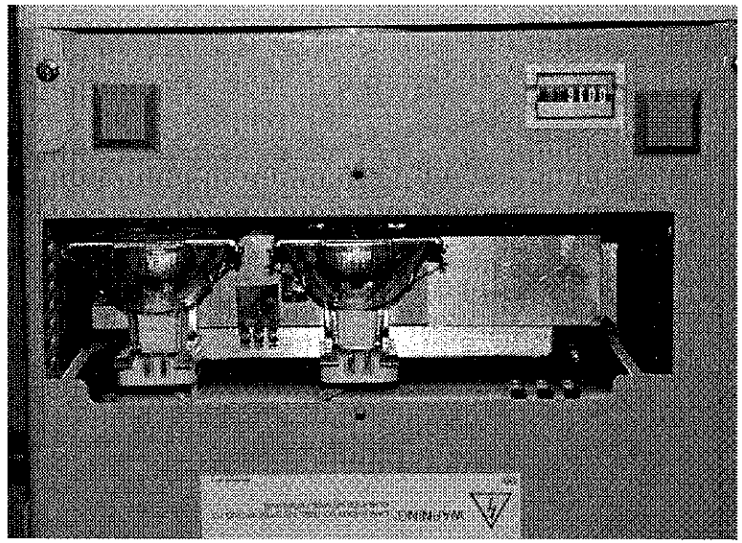


Figure 5-5
Removing the Lamp

Step 6 Align the male end of the new lamp with the ceramic receptacle on the lamp holder.

CAUTION: Do not touch the bulb inside of the lamp. Oil from your hands will shorten the life of the lamp.

Step 7 Insert the lamp into the lamp holder and gently press until completely seated.



Step 8 Align the light access door with the bottom of the main chassis.

Step 9 Install and tighten the two screws that secure the light access door to the bottom of the main chassis.

Step 10 Return the unit to the operating position.

5.5 Preserving Lamp Life

Lamp life and light output are effected by the following factors. Proper light output directly impacts the effectiveness of treatment.

- Optical intensity setting
- Vibration and mechanical shock
- Soil on lamp

5.5.1 Lamp Life Expectancy and Optical Intensity Setting

Lamp life will vary with the intensity at which the unit is operated. Average lamp life:

- Level 1 = 600 hours / bulb
- Level 2 = 285 hours / bulb

5.5.2 Vibration and Mechanical Shock

For maximum lamp life, be sure to place the unit on a stable surface that is not exposed to vibration or where the unit could be easily dropped.

5.5.3 Soil on Lamp

WARNING: To avoid electrical shock, disconnect the electrical supply before attempting to clean the Wallaby 3. Do not immerse the unit or any accessory equipment in water or allow any liquid to enter the unit or fiber bundle connector port.

Using a fresh cotton swab, wet with alcohol, wipe the reflector on the inside of the lamp. Do not touch the lamp bulb. Allow the reflector to air dry before turning the unit on.

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Chapter 6: Troubleshooting and Diagnostics

6.1 Overview 6-3

6.2 Troubleshooting Table 6-4

6.3 Wallaby 3 Process of Elimination for Failure Diagnosis 6-17

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Chapter 6: Troubleshooting and Diagnostics

6.1 Overview

The troubleshooting table in this chapter is provided to help the technician determine the cause of malfunctions with the Wallaby 3 Phototherapy System (Wallaby 3). Use these troubleshooting procedures to determine what parts, if any, need to be replaced.

6.2 Troubleshooting Table

Symptom	Cause	Verification	Corrective Action
• No Power • Alert amber LED is inactive • Power green LED is inactive • Lamps are inoperable • Fan is inoperable	• Power supply failure	• Verify that the unit is plugged into a working 120V AC outlet.	• Plug the AC power cord into a known-good 120V AC power source.
		• Verify that the unit's power switch is turned to the ON position.	• Move the power switch on the front of the unit to the ON position.
		• Verify that the power switch works.	• Replace the power switch.
		• Inspect the connections of the AC wiring harness at the AC power inlet for looseness.	• Secure AC wiring harness connections.
		• Measure the AC inlet input voltage.	• Replace the AC wiring harness. • Replace the AC power inlet.
		• Measure the power supply DC output voltage at J1 (25.00 – 25.25 VDC) on the controller PCB.	• Replace the 24 volt wiring harness. • Replace the power supply assembly.

Troubleshooting Table (Continued)

Symptom	Cause	Verification	Corrective Action
• Alert amber LED is continuously active* • Power green LED is active • Lamps are inoperable • Cabinetry surface is hot	• Unit is overheating	• Verify that the cooling fan is functioning properly.	• Replace the cooling fan.
		• Visually inspect the air vents and fan discharge for obstructions.	• Remove the obstructions.
		• Visually inspect the cooling fan connection and measure the voltage at J13 (25.00 – 25.25 VDC) on the controller PCB.	• Secure the cooling fan connection.
		• Check appropriate voltages at test points TP7 (10 mV/°C) & TP8 (5 VDC = High Temp).	• Replace the controller PCB.

* Will only occur when the fiber optic panel is connected to the unit.

** There is a possibility that the customer fiber optic panel may be defective. Using only the test panel will not eliminate this possibility.

Troubleshooting Table (Continued)

Symptom	Cause	Verification	Corrective Action
• Alert amber LED is inactive • Power green LED is active • Lamps are operable • Customer fiber optic panel is operable** • Fiber bundle cable is hot (melting)	• Filter failure • Ventilation system failure / obstruction	• Visually inspect the optical filter for damages or dislocation (located internally on the front panel assembly). • Check the fiber bundle cable for damages. • Verify that there are no obstructions at the air vents and the fan discharge. • Verify that the cooling fan is functioning properly.	• Replace the optical filter assembly. • Replace the fiber optic panel. • Remove obstructions preventing proper air flow. If there are no obstructions preventing proper air flow, replace: a) the cooling fan (check voltage at J13 - 25.00 – 25.25 VDC). b) the controller PCB (check voltage at J1 - 25.00 – 25.25 VDC). • Replace the cooling fan.

Troubleshooting Table (Continued)

Symptom	Cause	Verification	Corrective Action
• Alert amber LED is inactive • Power green LED is active • Lamps are operable • Customer fiber optic panel is operable** • Joey Dosimeter irradiance measurements are not within tolerance.	• Joey Dosimeter is not being used correctly. • Joey Dosimeter is not calibrated. • Scratched or dirty filter • Wrong lamps being used. • Lamps are not properly aligned with the optical filter assembly. • Controller PCB failure • Optical filter assembly is not within specifications. • Optical filter assembly is bent or misaligned. • Lamp holder wires are damaged.	• Verify the procedures for proper use of the Joey Dosimeter. • Verify that the Joey Dosimeter is calibrated and its calibration date is valid. • Visually inspect the filter for dirt or scratches. • Examine the lamp holder wires for crimping or damaged insulation. • Verify correct voltage to the lamps (TP10 = 20.19 to 20.21 VDC - Level 2).	• Test the unit using the proper procedures for the Joey Dosimeter. • Have Joey Dosimeter calibrated. • Clean the filter (see Chapter 4). • Blow out the unit with dry air at 15 psi. • Replace the filter assembly. • Replace the lamp holder(s). • Adjust port RT1. • Replace the controller PCB.

Troubleshooting Table (Continued)

Symptom	Cause	Verification	Corrective Action
		• Verify that the lamps are Respironics lamps.	• Replace the lamps.
		• Verify the proper functioning of the slide rails, linear slide bracket, and linear stepper motor assemblies.	• Replace the linear slide and / or linear stepper motor assemblies.
		• Examine the optical filter assembly for proper positioning.	• Correctly mount the optical filter assembly to the front panel.
		• Ensure that the optical filter has not broken free from its mounting bracket.	• Replace the optical filter assembly.

Troubleshooting Table (Continued)

Symptom	Cause	Verification	Corrective Action
• Alert amber LED is inactive • Power green LED is active • Lamps are operable • Customer fiber optic panel is operable** • Joey Dosimeter is calibrated • Irradiance measurements are out of tolerance.	• Fiber optic panel damage • Fiber bundle cable damage • Optical filter failure • Controller PCB	• Visually inspect the fiber optic panel for damages.	• Replace the fiber optic panel assembly.
		• Verify that the fiber optic panel was cleaned with soapy water, a 10% bleach solution, or full strength ammonia and not dried with artificial heat.	• Replace the fiber optic panel assembly.
		• Verify that the panel was not stored near a heat source.	• Replace the fiber optic panel assembly.
		• Verify that the fiber bundle cable is not damaged from heat.	• Replace the fiber optic panel assembly.
		• Visually inspect the fiber bundle cable for a soiled, scratched, cut, melted, and / or punctured end.	• Replace the fiber optic panel assembly.

Troubleshooting Table (Continued)

Symptom	Cause	Verification	Corrective Action
		• Visually inspect the optical filter and inspect for damage or dislocation (located internally on the front of the optical filter assembly of the unit).	• Replace the optical filter assembly.
		• Check the calibration of the controller PCB (TP10 - 20.19 to 20.21 VDC Level 2).	• Replace controller PCB.

Troubleshooting Table (Continued)

Symptom	Cause	Verification	Corrective Action
• Alert amber LED is continuously active* • Power green LED is active • Lamp is inoperable	• Lamp failure • Overheating • Lamp holder failure • Controller PCB failure	• Visually inspect lamp filaments for damage. • Verify the connection of all wiring harnesses. • Check for overheating. • Inspect air vents for obstructions. • Ensure that both lamps are properly seated in the lamp holders. • Check voltages at TP 15 & TP 16 for 0 VDC when located in the operating position.	• Replace the lamp. • Secure the connections. • Allow unit to cool for five minutes. • Remove the obstruction. • Reseat the lamps in the holders. • Replace the controller PCB.

Troubleshooting Table (Continued)

Symptom	Cause	Verification	Corrective Action
• Alert amber LED is blinking* • Active lamp is operable • Power green LED is active	• Lamp failure • Controller PCB failure	• Visually inspect the inactive lamp filament to determine if a single lamp failure has occurred.	• Replace the lamp.
		• Ensure that both lamps are properly seated in the lamp holders.	• Reseat the lamps in the holders.
		• Visually inspect the lamp wiring harnesses for damage.	• Replace the lamp holders.
		• Check the voltages at TP 15 & TP 16 (5 VDC) when located in the non-operating position.	• Replace the controller PCB.

Troubleshooting Table (Continued)

Symptom	Cause	Verification	Corrective Action
• Alert amber LED is inactive • Power green LED is active • Lamps are inoperable • Customer fiber optic panel is inoperable**	• Fiber bundle connector failure • Controller PCB failure • Power supply • 24 volt wiring harness	• Ensure the fiber optic panel is securely locked into the fiber bundle connector. • Verify that the fiber bundle connector micro switch is functioning properly. • Ensure that the light level / panel input wiring harness is properly connected. • Check the voltage at J5 - pin 3 (5 VDC)	• Reseat the fiber optic panel cable in the fiber bundle connector. • Replace the light level switch w/ fiber bundle micro switch and wiring harness. • Replace the fiber bundle connector assembly. • Replace the front panel assembly. • Secure the connections. • Replace the controller PCB.

Troubleshooting Table (Continued)

Symptom	Cause	Verification	Corrective Action
		• Ensure that the 24 volt wiring harness connector is properly connected on the controller PCB and power supply assembly (J1 and J3).	• Secure the connections. • Replace the 24 volt wiring harness.
• Alert amber LED is blinking* • Power green LED is active • Inactive lamp has not failed and is illuminated • Active lamp has failed • Lamps are not shifting	• Linear slide bracket assembly failure • Linear slide micro switch failure • Controller PCB failure • Linear stepper motor actuator assembly failure	• Visually inspect the linear slide and linear stepper motor assemblies for jamming or misalignment with slide rails. • Verify that the linear step motor is getting the appropriate voltage (12 VDC).	• Replace the linear slide bracket assembly. • Replace the linear stepper motor assembly. • Replace the slide rails. • Replace the controller PCB.

Troubleshooting Table (Continued)

Symptom	Cause	Verification	Corrective Action
		• Visually inspect the slide rails and linear slide bracket for damages or defects. • Verify that there is no interference with linear slide bracket assembly and adjacent components. • Ensure that the connections at the linear stepper motor and linear slide position switch are secure.	• Replace the slide rails. • Replace the linear slide bracket assembly. • Eliminate the interference. • Secure the connections.
• Alert amber LED is inactive • Power green LED is active • Joey Dosimeter is calibrated • Irradiance measurements are correct at only one level of the light level switch.	• Light level switch failure • Controller PCB failure	• Verify that there are no loose connections at the light level switch. • Check controller PCB calibration.	• Replace light level switch w/ fiber bundle micro switch and wiring harness assembly. • Replace controller PCB.

Troubleshooting Table (Continued)

Symptom	Cause	Verification	Corrective Action
• Unit cycles on until lamp illuminates briefly, then cycles off	• Power supply assembly failure	• Verify that there are no loose wiring harness connections. • Visually inspect the power supply assembly for damage.	• Secure the connections. • Replace the power supply assembly.
• Alert amber LED is inactive • Power green LED is active • Lamps are operable • Customer fiber optic panel is operable** • Hour meter is not increasing	• Hour meter failure • Controller PCB failure	• Verify that there are no loose connections at the hour meter (J6). • Inspect the hour meter for "jamming". • Measure the voltage to the hour meter during operation of the unit (J6 = 5 VDC).	• Secure the connections. • Replace the hour meter. • Replace the controller PCB.

* Will only occur when the fiber optic panel is connected to the unit.

** There is a possibility that the customer fiber optic panel may be defective. Using only the test panel will not eliminate this possibility.

6.3 Wallaby 3 Process of Elimination for Failure Diagnosis

Test Equipment

- Unit Under Test (UUT)
- Digital Multimeter (DMM)
- Probe Test Leads
- Fiber Optic Panel

6.3.1 Equipment Setup

Step 1 Disconnect the UUT from the AC power source.

Step 2 Remove the light access door (see Section 5.7 for detailed instructions).

Step 3 Remove the outer cover assembly (see Section 7.4.7 for detailed instructions).

Step 4 Plug the UUT into the AC power source.

6.3.2 Failure Diagnosis Procedure

Step 1 At various test points, use the DMM and probe test leads to measure the VDC at the various points on the controller PCB and the power supply assembly. Refer to Table 6-1 for the functions, test points, and voltages. Refer to Figures 6-1 and 6-2 for test point locations.

Wallaby 3 Process of Elimination for Failure Diagnosis (Continued)

Function	Test Point	Voltage	Location & Notes
Cooling Fan	J13	25.00 – 25.25 VDC	Controller PCB, labeled "Fan"
Stepper Motor	J2	~5.5 VDC	Controller PCB, motor running
Slide Actuator Microswitch	TP21	0 VDC = Lamp A 5 VDC = Lamp B	Controller PCB, lamp position
Panel	J5	5 VDC, pins 1 & 3	Controller PCB, pins 1 & 2 for light level switch, pins 3 & 4 for panel detection microswitch
Hour Meter	TP4	5 VDC	Controller PCB, hour meter enabled
Ground	TP24	0 VDC	Controller PCB
Lamp Voltage	TP10	20.19 - 20.21 VDC	Controller PCB
Lamp "A"	TP15	5 VDC	Controller PCB, lamp off
Lamp "B"	TP16	5 VDC	Controller PCB, lamp off
Input Power	J1	25.00 – 25.25 VDC	Controller PCB
Input Voltage	TP18	25.00 – 25.25 VDC	Controller PCB, nominal range (average) located before U6
Stepper Motor Voltage	TP19	12 VDC	Controller PCB, located after U6, before U7
Logic Voltage	TP17	5 VDC	Controller PCB, located after U7
Wiring Harness	J3	25.00 – 25.25 VDC	Power supply assembly

Table 6-1
Functions, Test Points, and Voltages

Wallaby 3 Process of Elimination for Failure Diagnosis (Continued)

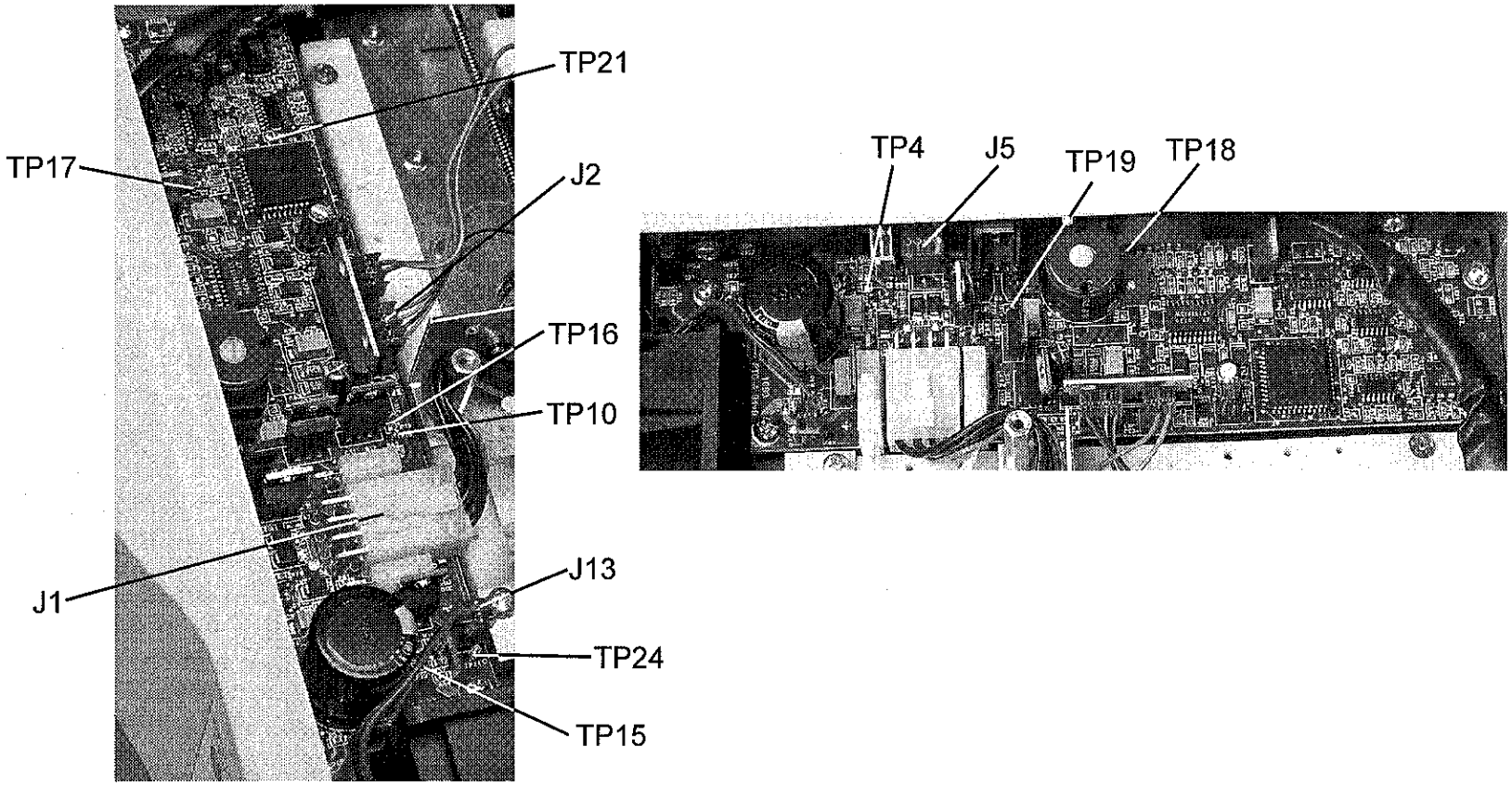

Figure 6-1
Test Points Locations on the Controller PCB

Wallaby 3 Process of Elimination for Failure Diagnosis (Continued)

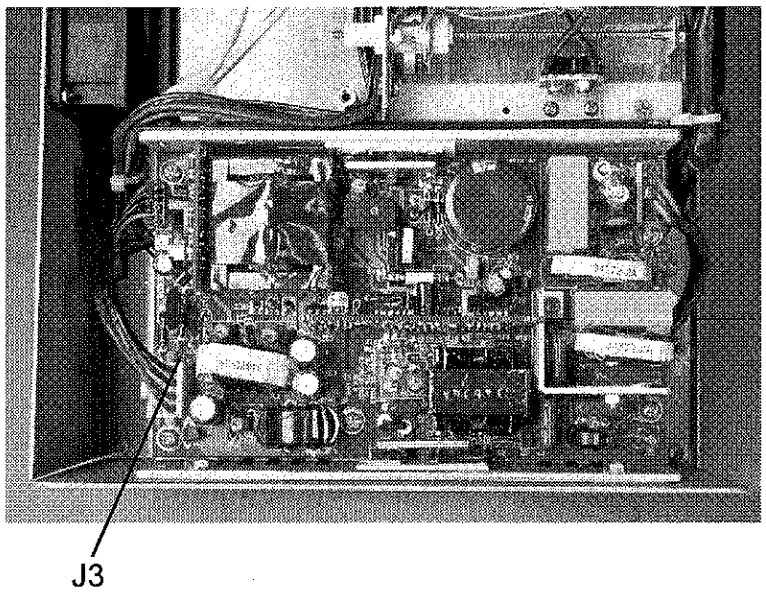

Figure 6-2
Test Point Location on the Power Supply Assembly

Chapter 7: Repair & Replacement

7.1 Overview 7-3

7.2 Wallaby 3 Phototherapy System Repair Kits 7-7

7.3 Warnings and Cautions 7-16

7.4 Replacement Instructions 7-17

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Chapter 7: Repair & Replacement

7.1 Overview

Figure 7-1 lists the names and identifies the locations of the major replaceable components in the Wallaby 3 Phototherapy System (Wallaby 3). This drawing provides a quick reference and overview of the unit. Within each replacement section, more detailed support graphics are provided to illustrate the exact component location and replacement procedure(s).

Refer to Chapter 8 for testing that is required after components are replaced.

For additional information or technical support, contact:

U.S. and Canada

Phone: 1-800-345-6443
Fax: 1-800-422-5816

International

Phone: 1-724-387-4000
Fax: 1-724-387-5012

Visit Respironics Home Page on the World Wide Web at:

www.respironics.com

7.1.1 Wallaby 3 Phototherapy System Exploded View

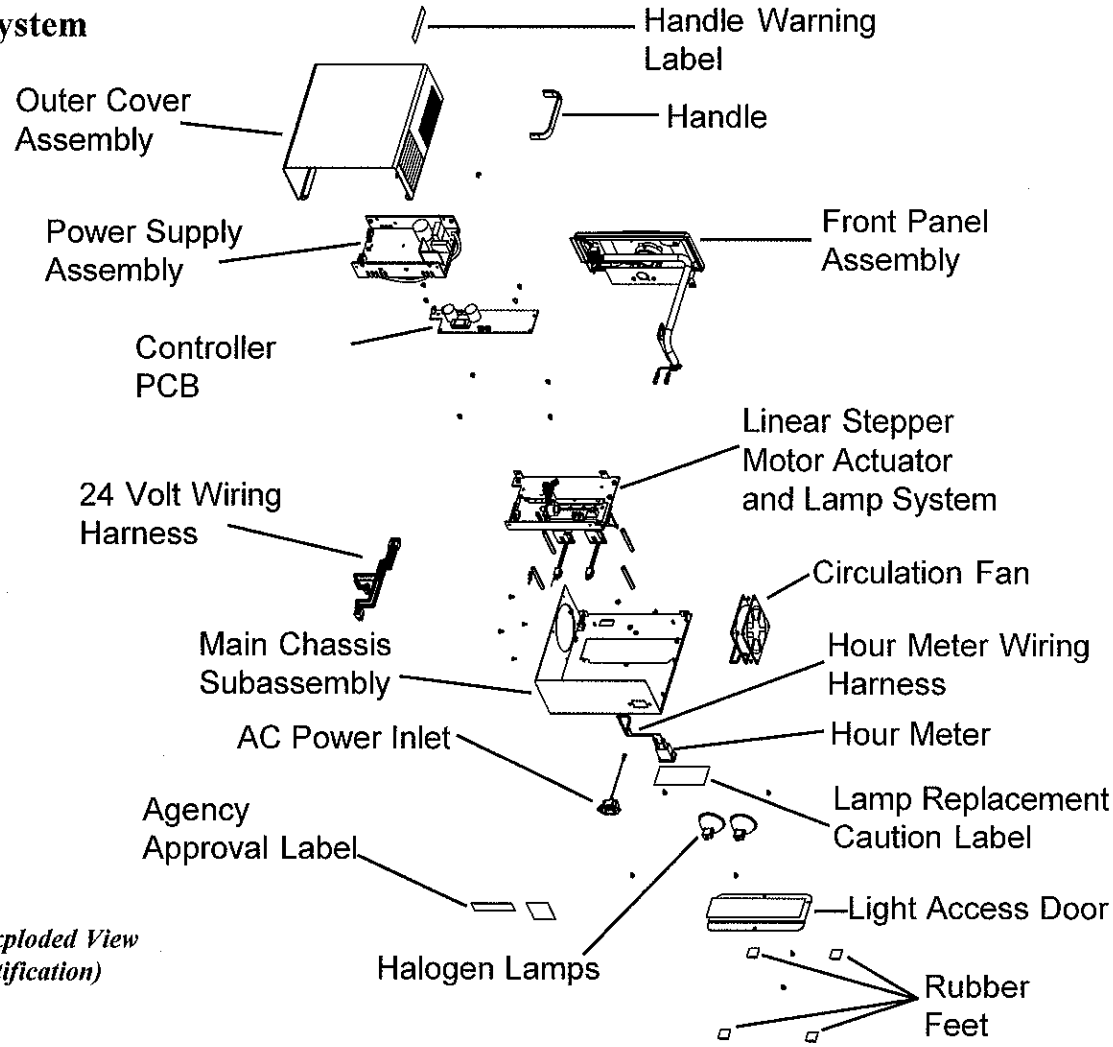


Figure 7-1
Wallaby 3 Phototherapy System Exploded View
(Component Location and Identification)

Exploded View (Continued)

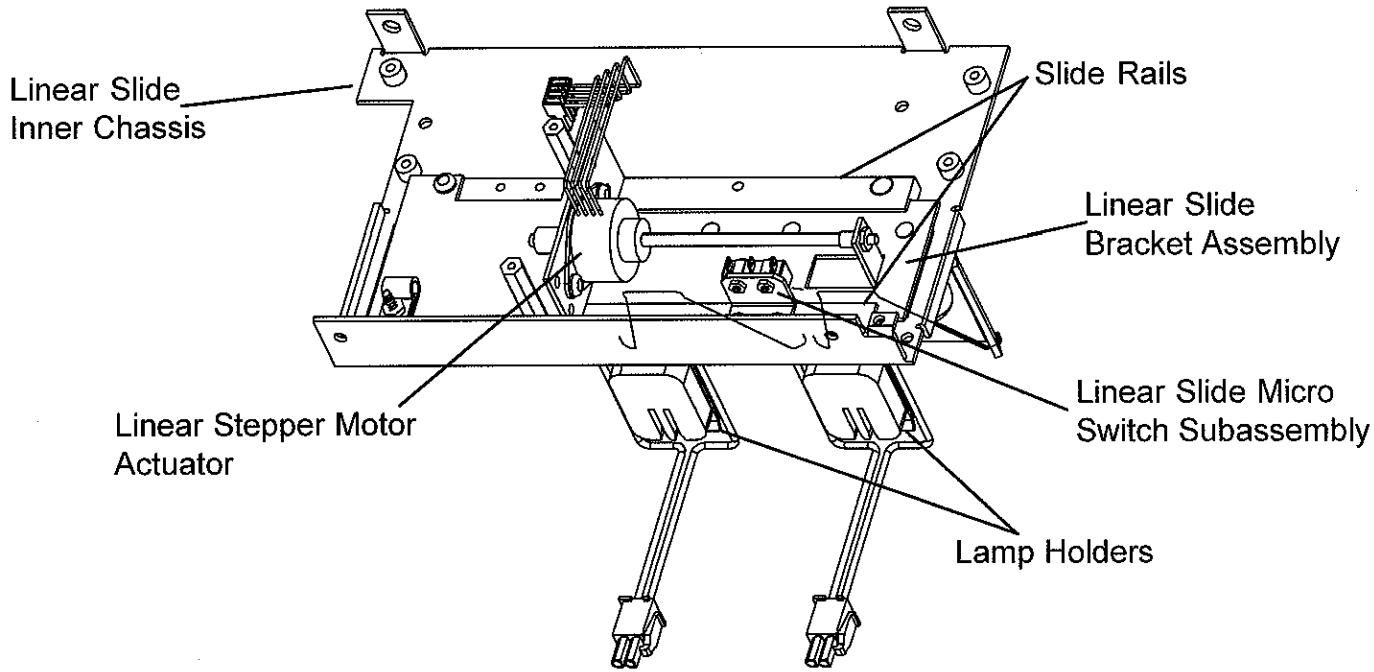


Figure 7-2
Detailed View of the Linear Stepper Motor Actuator and Lamp System

Exploded View (Continued)

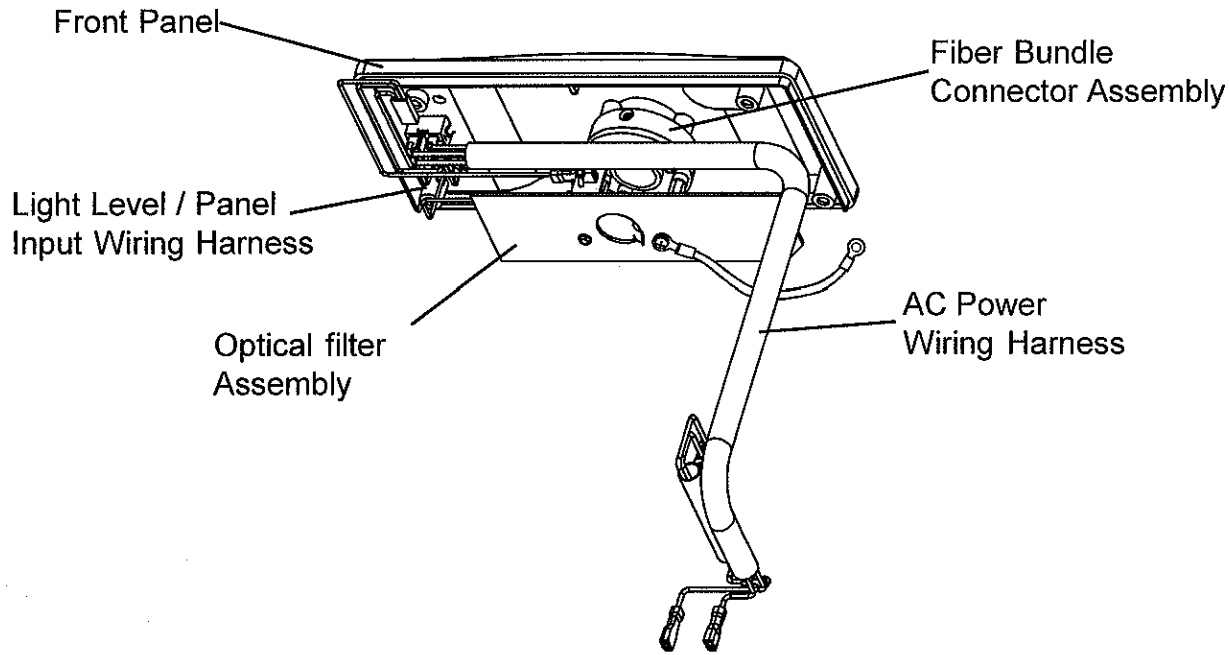


Figure 7-3
Detailed View of Front Panel Assembly

7.2 Wallaby 3 Phototherapy System Repair Kits

Replacement Part	Replacement Part No.	Page No.
AC Power Cord (U. S. and Canada)	3600-001	4-4
AC Power Cord (International)	To Be Issued at a Later Date	4-4
AC Power Inlet	3600-002	7-40
Actuator Bracket	3600-042	7-82
Circulation Fan w/ Wiring Harness	3600-003	7-47
Controller Printed Circuit Board (PCB)	3600-004	7-85
Fastener Kit: Includes: • 2-56 Nut (×4) • 2-56 × .500" Phillips screw (×6) • 4-40 Nut (×2) • 4-40 × .250" Phillips screw (×8) • 4-40 × .375" Flat head Phillips screw black (×4) • 4-40 × .625" Phillips screw (×6) • 6-32 Keps Nut (×6) • 6-32 × .250" Phillips Sems screw (×8)	3600-037	Applicable to Multiple Kits

Wallaby 3 Phototherapy System Repair Kits (Continued)

Replacement Part	Replacement Part No.	Page No.
• 6-32 × .375" Flat head Phillips screw (×4) • 6-32 × .375" Flat head Phillips screw (black) (×2) • 10-32 × .250" Phillips Sems screw (×4) • 10-32 × .375 Truss head Phillips screw (×2) • Standoff, 4-40 × 1.250" (×2) • Standoff, 6-32 × 1.125" (×2) • Standoff, 6-32 × 2.375" (×4) • Cable clamp (×3) • Cable tie (×4)		
Fiber Bundle Connector Subassembly Includes: • Fiber bundle connector, outer • Fiber bundle connector, inner • Gasket, grounding spring • Standoff, 1.250" (×2) • Ball plunger latch screw	3600-005	7-75
Fiber Optic Panel (Standard) (See Page 4-6 for panel disposal covers and carrying case part number.)	EG-2000	N.A.
Fiber Optic Panel (Neonatal) (See Page 4-6 for panel disposal covers and carrying case part numbers.)	EG-2000N	N.A.

Wallaby 3 Phototherapy System Repair Kits (Continued)

Replacement Part	Replacement Part No.	Page No.
Front Panel (U. S. and Canada) Includes: • Front panel • Label, user interface overlay • Label, Wallaby logo overlay	3600-006	7-77
Front Panel (International) Includes: • Front panel • Label, user interface overlay • Label, Wallaby logo overlay	3600-038	7-77
Front Panel Assembly (U. S. and Canada) Includes: • Front panel • Label, user interface overlay • Label, Wallaby logo overlay • Optical filter assembly • AC power switch w/ wiring harness • Light level switch w/ fiber bundle micro switch and wiring harness • Fiber bundle connector assembly • Screw, ball plunger latch • Grounding wire • Ferrite	3600-025	7-54

Wallaby 3 Phototherapy System Repair Kits (Continued)

Replacement Part	Replacement Part No.	Page No.
Front Panel Assembly (International) Includes: • Front panel • Label, user interface overlay • Label, Wallaby logo overlay • Optical filter assembly • AC power switch w/ wiring harness • Light level switch w/ fiber bundle micro switch and wiring harness • Fiber bundle connector assembly • Screw, ball plunger latch • Grounding wire • Ferrite	3600-041	7-54
Grounding Kit Includes: • Ground spring gasket (panel inlet) • Contact strip (heat sink) • Wiring harness, filter bracket ground (optical filter assembly)	3600-035	7-60
Halogen Lamp	3600-026	5-6
Handle	3600-007	7-35

Wallaby 3 Phototherapy System Repair Kits (Continued)

Replacement Part	Replacement Part No.	Page No.
Hour Meter	3600-024	7-66
Label, Agency Approval	3600-027	7-26
Label, Handle Warning (U. S. and Canada)	3600-031	7-28
Label, Handle Warning (International)	3600-032	7-28
Label, Lamp Replacement Caution (U. S. and Canada)	3600-033	7-30
Label, Lamp Replacement Caution (International)	3600-034	7-30
Label, User Interface Overlay (U. S. and Canada)	3600-028	7-22
Label, User Interface Overlay (International)	3600-029	7-22
Label, Wallaby Logo Overlay	3600-030	7-24
Label, Warranty	See Note [2]	N.A.

Wallaby 3 Phototherapy System Repair Kits (Continued)

Replacement Part	Replacement Part No.	Page No.
Light Access Door Includes: • Light access door • Heat shield, adhesive backed	3600-008	5-6
Linear Slide Bracket Subassembly Includes: • Linear slide bracket • Linear slide rail (×2)	3600-010	7-95
Linear Slide Inner Chassis	3600-011	7-97
Linear Slide Micro Switch Subassembly Includes: • Linear slide micro switch w/ wiring harness • Linear slide micro switch bracket	3600-021	7-37
Linear Stepper Motor Actuator Includes: • Linear stepper motor actuator • Cable clamp	3600-012	7-79

Wallaby 3 Phototherapy System Repair Kits (Continued)

Replacement Part	Replacement Part No.	Page No.
Main Chassis Subassembly (U. S. and Canada) Includes: • Main chassis • Serial number label – "User Notes" • Label, agency approval • Label, lamp replacement caution • Rubber foot (×4) • Cable clamp	3600-013 See Note [1]	7-100
Main Chassis Subassembly (International) Includes: • Main chassis • Serial number label – "User Notes" • Label, agency approval • Label, lamp replacement caution • Rubber foot (×4) • Cable clamp	3600-039 See Note [1]	7-100
Optical Filter Assembly Includes: • Optical filter • Light filter bracket	3600-009	7-68

Wallaby 3 Phototherapy System Repair Kits (Continued)

Replacement Part	Replacement Part No.	Page No.
Outer Cover Assembly (U. S. and Canada) Includes: • Outer cover enclosure • Handle • Label, handle warning	3600-014	7-32
Outer Cover Assembly (International) Includes: • Outer cover enclosure • Handle • Label, handle warning	3600-040	7-32
Power Supply Assembly Includes: • Power supply assembly • Cable clamp	3600-015	7-50
Rubber Foot (×4)	3600-022	7-20
Slide Rails (R. H. & L. H.)	3600-016	7-92
Technical Service Manual	1003037	N.A.
Wiring Harness, 24 Volt	3600-018	7-43

Wallaby 3 Phototherapy System Repair Kits (Continued)

Replacement Part	Replacement Part No.	Page No.
Wiring Harness, AC Power Includes: • AC power wiring harness • AC power switch • Ferrite shield	3600-017	7-70
Wiring Harness, Hour Meter	3600-023	7-63
Wire Harness, Lamp Holder	3600-020	7-88
Wiring Harness, Light Level / Panel Input Includes: • Light level / panel input wiring harness • Light level switch • Fiber bundle micro switch	3600-019	7-72

Comments:
- Exploded views are shown on pages 7-4 through 7-6.
- All items have a quantity of one unless otherwise specified.
- All hardware for the entire unit is contained in the fastener kit.
- Part replacement procedures are detailed within this chapter.

Note 1: Contact Respironics Technical Support Department for main chassis ordering information (see page 7-3).
Note 2: Contact Respironics Technical Support Department for warranty label ordering information (see page 7-3).

7.3 Warnings and Cautions

WARNING: To prevent electrical shock, disconnect the electrical supply before attempting to make any repairs to the Wallaby 3 Phototherapy System (Wallaby 3).

To assure the safety of the service technician and the specified performance of the device, Respironics recommends that only technicians having prior training or experience servicing illuminator devices perform any repairs or adjustments to the device.

CAUTION: Electronic components used in this system are subject to damage from static electricity. Repairs made to the modules must be performed only in an antistatic, ESD-protected environment.

7.4 Replacement Instructions

See Figure 7-4 and 7-5 before removing or installing any component. These figures will detail the order in which each item must be removed or installed and should be used as a guideline for quick reference.

Replacement Instructions (Continued)

Removal Flow Chart

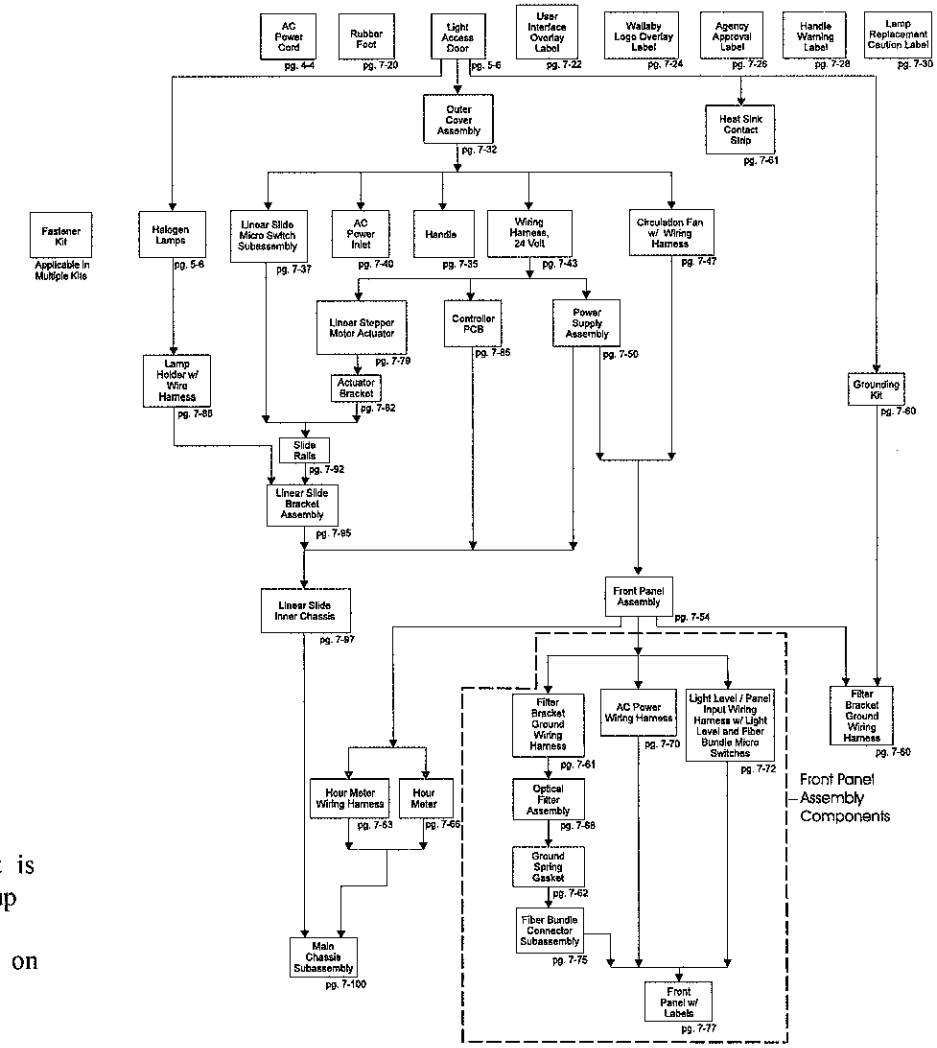


Figure 7-4
Removal Flow Chart

Chart Usage: Determine which component is to be removed, then follow the line of flow up to the "Light Access Door" and begin the removal process. Detailed procedures begin on the referenced page numbers.

Replacement Instructions (Continued)

Installation Flow Chart

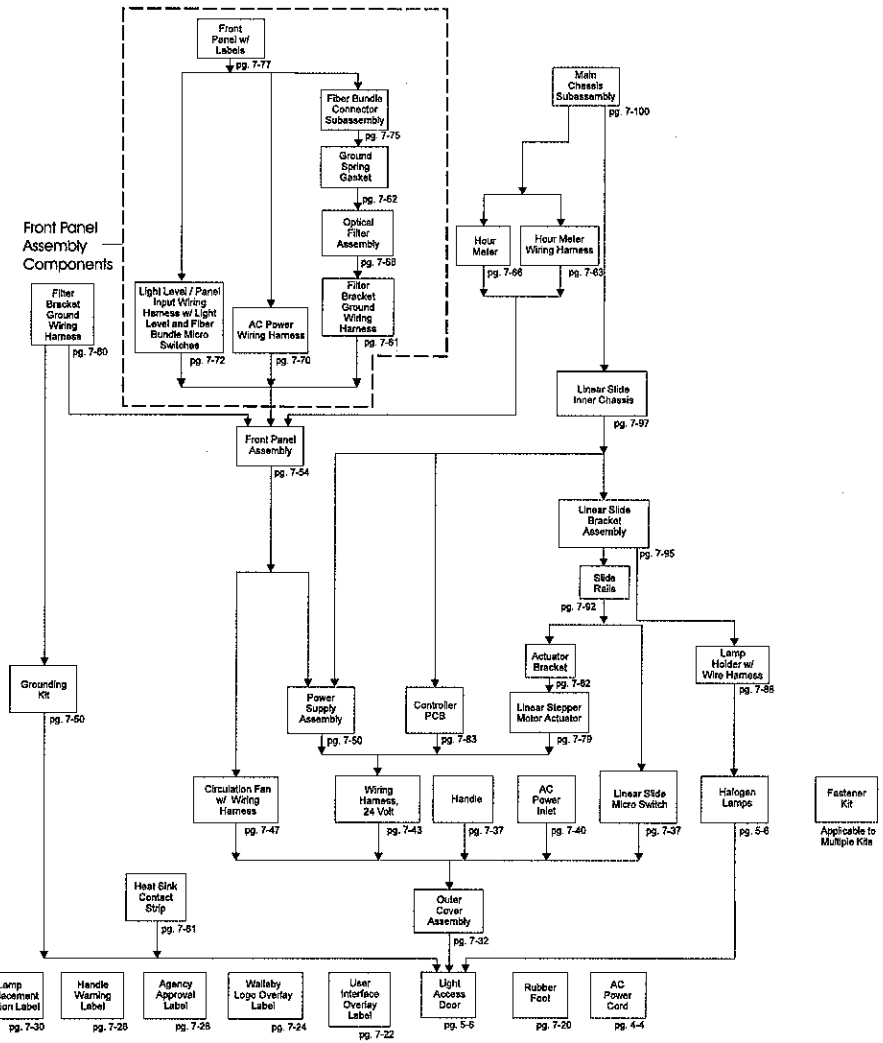


Figure 7-5
Installation Flow Chart

Chart Usage: Determine which component is to be installed, then follow the line of flow down to the "Light Access Door" and begin the installation process. Detailed procedures begin on the referenced page numbers.

7.4.1 Rubber Foot Replacement

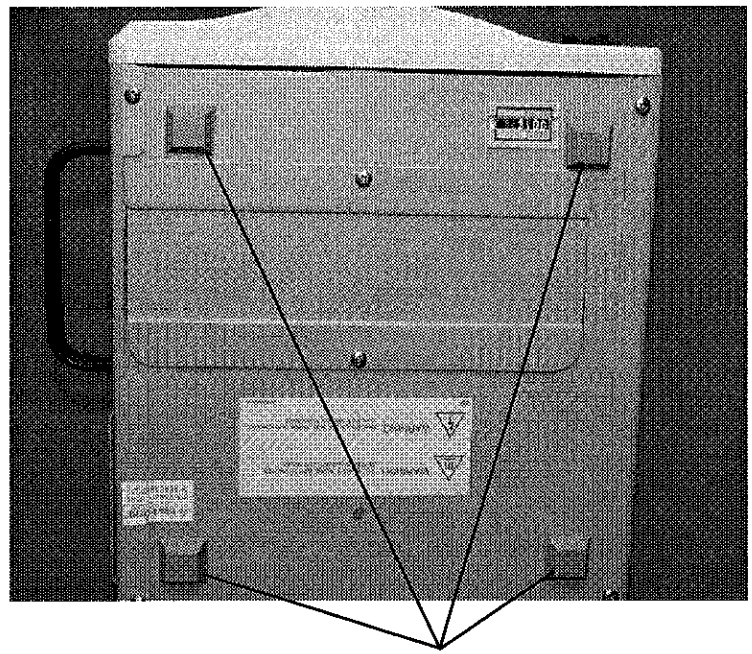
Replacement Part Number 3600-022

Included in Kit:	Tools Required:
Rubber foot (×4)	Isopropyl alcohol Cleaning cloth

Procedure

Removed / Installed During Process:

- Rubber foot



Rubber Foot Replacement (Continued)

Step 1 Removing the Rubber Foot

a. On a protected work surface, carefully turn the unit over exposing the bottom of the main chassis.

b. Note the location of each of the four rubber feet.

c. Peel each rubber foot from the bottom of the main chassis subassembly.

d. If necessary, use a cleaning cloth with a small amount of isopropyl alcohol to remove any adhesive residue remaining on the main chassis subassembly.

Step 2 Installing the Rubber Foot

a. Remove the protective backing from the rubber foot.

b. Set the foot in place and press firmly.

c. Repeat the process for the remaining three rubber feet.

d. Carefully return the unit to the upright position.

7.4.3 Wallaby Logo Overlay Label Replacement

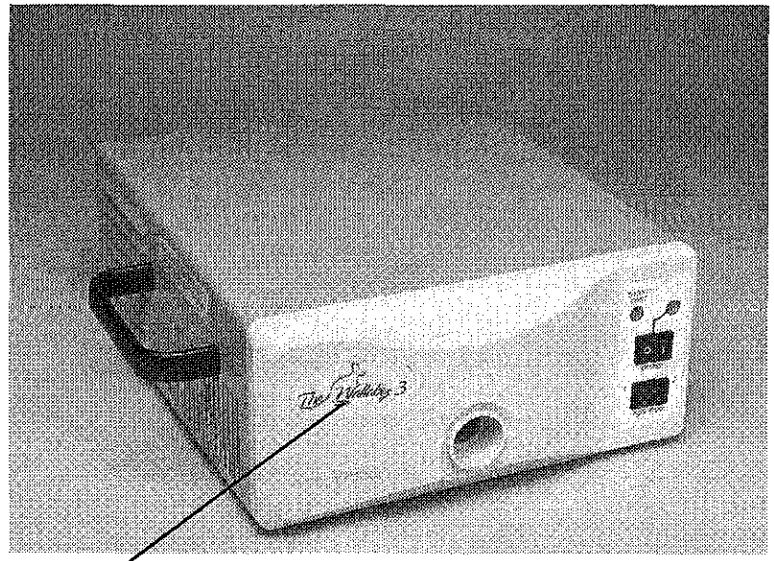
Replacement Part Number 3600-030

Included in Kit:	Tools Required:
Wallaby logo overlay label	Isopropyl alcohol Cleaning cloth

Procedure

Removed / Installed During Process:

- Wallaby logo overlay label



Wallaby Logo
Overlay Label

Wallaby Logo Overlay Label Replacement (Continued)

Step 1 Removing the Wallaby Logo Overlay Label

a. Place the unit on a protected work surface.

b. Starting at one corner, peel the Wallaby logo overlay label from the front panel.

c. If necessary, use a cleaning cloth with a small amount of isopropyl alcohol to remove any adhesive residue remaining on the front panel.

Step 2 Installing the Wallaby Logo Overlay Label

a. Remove the protective backing from the Wallaby logo overlay label.

b. Set the label in place and press firmly.

7.4.4 Agency Approval Label Replacement

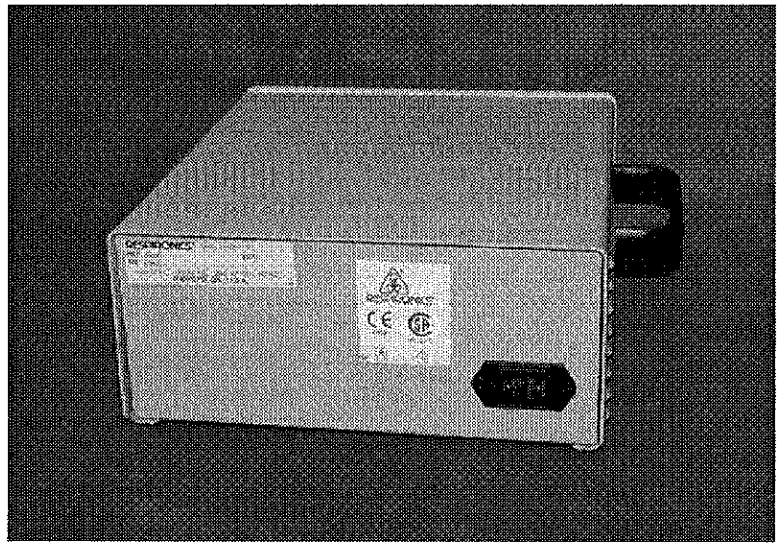
Replacement Part Number 3600-027

Included in Kit:	Tools Required:
Agency approval label	Isopropyl alcohol Cleaning cloth

Procedure

Removed / Installed During Process:

- Agency approval label



Agency Approval Label Replacement (Continued)

Step 1 Removing the Agency Approval Label

a. Place the unit on a protected work surface.

b. Starting at one corner, peel the agency approval label from the back of the main chassis.

c. If necessary, use a cleaning cloth with a small amount of isopropyl alcohol to remove any adhesive residue remaining on the back of the main chassis.

Step 2 Installing the Agency Approval Label

a. Remove the protective backing from the agency approval label.

b. Set the label in place and press firmly.

7.4.5 Handle Warning Label Replacement

Replacement Part Number (U.S. and Canada) 3600-031

Replacement Part Number (International) 3600-032

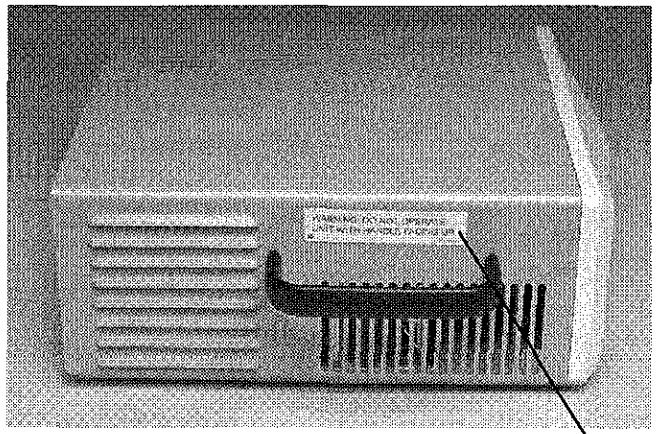
Included in Kit:	Tools Required:
Warning label	Isopropyl alcohol Cleaning cloth

Procedure

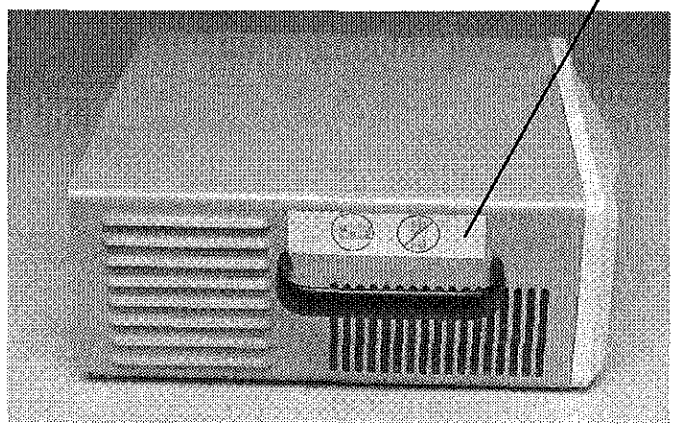
Removed / Installed During Process:

- Warning label

U.S. and Canada



International



Handle Warning Label Replacement (Continued)

Step 1 Removing the Warning Label

a. Place the unit on a protected work surface.

b. Starting at one corner, peel the handle warning label from the outer cover assembly.

c. If necessary, use a cleaning cloth with a small amount of isopropyl alcohol to remove any adhesive residue remaining on the outer cover assembly.

Step 2 Installing the Warning Label

a. Remove the protective backing from the handle warning label.

b. Set the label in place and press firmly.